Collection no. 120 — N. Qland.

K. H. L. Key
3–20. iv. 1962

(Plants det. ~~M. Gray~~ M. Lazarides)

3/ft Castle Hill, Townsville. The hill is a monadnock of granitic rock, with cliffs & steep slopes showing massive rock exposures as well as dense boulder on all slopes. A few plants of Triodia ~~stenostachya~~ sp. at highest levels. Elsewhere a savannah woodland of E. erythrophloia, a rough-barked bloodwood & occ. ironbark, all 20–30 ft, with at least two phyllodineous acacias to 10 ft & a few other undetermined small trees. Small shrubs absent. Ground layer dense Themeda australis 1–3 ft, with a coarser grass to 5 ft. Adreppus (or Trophusius?) seen eating an acacia, but most specimens taken on trunks of acacia & one of the other small trees, as were the Pardillana. Moraba on long grass. Nasutotoma & Macrocara more numerous in vicinity of rocks, Adlappa among

Cedarinia sp. 15, Stenocotantops (punkish) angustifrons, Eastrimargus mussionis, Heteropternis obscurella, Macrocara sp. 1, Adlappa erythroptera, Conicaca sp., Nasutacris proxima, Valanga irregularis, Paratettix cransa(?), Tolgadia sp., Methiola sp., Pardillana sp. 14, Callitala sp. P57, Macrotoma sp. 31, sp., Adreppus brevirostris, Acrida conica.

grass on flatter areas, especially along road. Austrocris in longer grass.

25/4

A hill c. 3 mm. N. of Cairns: adjoining Methiola picta, Cedarinia costata, Stenocatantops angustifrons (J.), Rectitropis sp., Pycnostictus seriatus, Paratettix femoralis, P. pistrinus, Loxilobus pulcher, Atractomorpha crenaticeps, Callitala sp. P72 agrobiome together with the flat bend there. Hill was partly rainforest, partly eucalypt woodland. The latter has a ground layer of densely matted grass to 3-4 ft except on the most exposed ridges, where Themeda australis to 2 ft occurs; occ. shrubs. Found here: Cedarinia, Methiola, ~~Rectitropis~~ Stenocatantops. On rainforest fringes: Rectitropis. Flat is swampy, with paper barks to 30 ft & occ. shrubs & low mangroves to 10 ft. Grasses & forbs to 1 ft. Callitalini, Tetrigids & Pycnostictus here. Callitalini mainly amongst grass in immature stages; adults mainly always on shrubby dicots, incl. a phyllode acacia and a rather succulent mangrove.

26/4

Gastrimargus musicus, Gomadia sp., Adlappa

Site 1 Summit of McDuall Range, erythroptera, Stenocatantops sp. 1, S. angustifrons, 4 road miles approx. E. of Gen. Low Peakesia sp. 16, Maclyptria sp. 1, Austracris basalis, eucalypt savannah woodland. W. occ. A. sp., Tolgadia sp., Nethiola sp., Calidia captiva, Acrida shrubs & grass dense to 3ft. Occ. rocks. conica, Macrotona sp. 31, Pycnostictus scriatus (on Port Stewart road).

Site 2 Approx. 12 road miles E. of Gen Gomadia sp., Peakesia spp. 17, Macrotona sp. 21, on Port Stewart road. Low eucalypts Maclyptria sp. 1, Callitala sp. P72, Moraba sp. P134, Peakesia + broad-leafed Melaleuca, mth sp. 18 regrowth of latter & occ. shrubs of a broad-phyllode acacia & a legume like Indigofera to 3ft. Xanthorrhoea to 3ft in patches. Grasses 1-3ft, patchy & thin in places.

2/5/64 Gomadia sp., Nethiola sp.,

Site 3 Selwyn Plains H.S. Low eucalypt Callitala sp. P72, Peakesia sp. 16, P. sp. 18, Valanga savanna woodland to 20ft w. irregularis, Austracris guttulosa, Gastrimargus some broad-leafed & narrow-leafed musicus, Atractomorpha crenaticeps, Pycnostictus Melaleuca & occ. shrubs. Grass to 3ft, serriatus, Stenocatantops vittipennis, Maclyptria much Townsville lucerne to 1m, sp. 1, Tolgadia sp., Calidia captiva, Adlappa erythroptera, & large patches of chenopod mat Stenocatantops angustifrons, Acrida conica, to 6ft. Callitala on shrubs.

Site 4 Edge of hyle - flat w. grasses. Tolgadia tortilis, T. sp., Peakesia sp. 8, Calidia to 5ft. Euca to 25ft w. phyllode acacia captiva, Callitala sp. P72 + broad-leafed Melaleuca to 15ft, grasses

mid. Themeda australis to
2-3ft. occ. shrubs + regrowth to 3ft.
Pale grey soil.

Site 5. Open patch in saw. woodland
Peatisia sp. 18, Adlappa erythroptera
w. a uniform stand of a legume to
9in.

Site 6 Saw. woodland w. phyllode
Callitala sp. P72
acacia regrowth. Callitaloid on
latter.

Site 7. Plain of "prairie couch" to
Heteropteris obsqurella, Berrimus brachycerus,
6in., with patches of salt pan
Chortoicetes terminifera, Pyrgomorphus seriatus
bearing Salicornia and patches
of mangrove + paperbark swamp.
Chortoicetes quite numerous on
couch, Valanga on mangrove.
Pycnoscelus striatus on subcoastal
dune.
28/4
Site 8 Small basaltic outcrop
Birrella sp., Stenocatantops angustifrons,
with soil up to 1ft + some of
S. sp. 1, Callitala sp. P72 (2), Conocephalus spp. (2)
desperate rainforest to 30ft. On
Rectitropis sp., Berrimus odontoscelus, Austracris sp.,
margin, grasses, and a few coarse
Tolgadia sp., Methiola sp., Callitala sp. P72 (2) (8).
broad leaved ones, to 4ft, and between
this + the rainforest a narrow
zone of shrubs + forest regrowth to
4ft. Birrella + Macrabine on this.

?Bermudes apparently associates w. the coarse grass. Chocolate soil.

29/4

Site 9 Muddy Creek crossing on route to Port Stewart. Various trees in sav. woodld. 20–40ft. Themeda australis & other grasses to 3ft, rocks but sparse in places. Shrubs to 3ft scattered, incl. regrowth of a narrow-leafed Melaleuca.
Methiola sp., Adlappa erythroptera, Peakesia sp. 16, P. sp. 18, Stenocatantops vitripennis.

Site 10 "Clay-pan" Coomb. Flat, pale grey heavy soil. 3 spp. of Melaleuca to 15ft w. occ. euc. to same. Numerous shrubs & regrowth to 6ft, grasses 1–3ft, some bare ground.
Maelipthria sp. 1, Peakesia sp. 16
Tolgadia sp., Xypechtia sp. 4.

Site 11 Port Stewart. Marine conch to 9in diam. Phragmites reeds to 11ft to salt marsh (Tussock) A. guttulosa, Gastrimargus musicus, Chortoicetes terminifera, Adlappa
Bermiodes sp., Gonicaca sp., Austracris basalis,
A patch of Pandanus to 10ft
swamp patches of chenopod mount. Dapsera erythroptera, Stenocatantops angustifrons, on land drum regrowth: Chortt & Gastr S. vitripennis, Peakesia sp. 18, Pycnostictus seriatus among conch. Took Coen road.

Site 12 Mosquito Creek. Patch of a small tree to 10ft w occ. broad-leafed Melaleuca to 17ft on flat pale
Maelipthria sp. 1, Peakesia sp. 18.

grey soil. Rather thin grass pasture to 10 in.

Site 13. "Box-wood flat". Level pale grey ?sandy clay soil w. open E. argentea to 50 ft. + a dense uniform stand of Tolgadia sp., Acrida conica Themeda australis + another grass to 3 ft. Zoysia sp., Austrapeuris basplios, Pardillana sp. 2

Site 1 Same as before but slightly lower down to E.

Site 14. Coln aerodrome, 15 mi. approx. N. of Coln. Collecting was done on the surrounds of the drome, which is located on a flat w. a hard pale clay loam (?) soil. The principal plant community seems to be a low woodland to sclerophyll forest, consisting of eucs ~~with~~ c. 20 ft with an abundant lower storey of phyllode acacia, banksia, Grevillea sp., etc to 15–20 ft, Xanthorrhoea sp. to 3 ft and a ground layer of variable height + density of grass, Lomandra sp., low shrubs to 1 ft, etc. Some leaf litter + rather sparsely Macrotona sp. 21, Zoysia sp., Valanga irregularis, Heteropternis obscurella, Rechitropis sp., Lypechtpia sp. 2, Tolgadia sp., Peaksia sp. 18, Maclystria sp. 1, Callibela sp. 14

covered areas. In places the trees very sparse. Dappenia seen on Pandanus regrowth at one point. Valanga on Hibiscus in garden of airport supervisor.

3o/4 Mt. White, c. 2 mi. S. of Coen. Genus nov. 84 sp. 1, Monostria rosciperma, Peakesia sp. 17, P. sp. 16, Rectitropis sp., Valanga meleager, V. irregularis, V. sp., Goniaca spp. (2), Methiola sp., Tolgadia sp., Macrocara conglobata, Maclyptria sp. 1., Australeis sp., Stenocalantops angustifrons, Birolla sp., (slope) Callitala sp. P72, C. sp. P46, Genus nov. 85 sp. 1

Mt. White rises some 900 ft above the plain on which Coen is situated. The form is a truncated pyramid. The top being about half the width of the base. The northern face is steeper than the eastern & western, which descend at c. 30° to horizontal. It bears mainly a dipauperate rainforest (scrub) to c. 20-30 ft & includes some large patches of white talus comprising rocks up to several feet across as well as smaller ones. The eastern & western slopes are eucalypt savannah woodland almost to summit, where they bear a low scrub to 6-8 ft. I ascended the western slope & descended the

eastern in both cases keeping
just clear of the scrub of the
northern face. The two small Valanga,
the Bisdella, the low-arched Goniaca,
& the new genus (? near Rictitopsis)
were inhabitants of the scrub
margin. The Valanga occurred
on scrub dicot shrubby plants
(possibly regrowth or stunted
individuals of scrub trees). The
Bisdella was somewhat nearer
to the scrub & extended into it.
The Goniaca seemed to be
associated with a phyllode
acacia (spec) & was seen feeding
on it. Acacia ? cowleana Tate
The new genus occupied
the ground layer of creeping plants,
& also extended into the scrub.
The Happaranoid genus was
confined to a species of woody
perennial herb to 18in (spec.) Leucia retusifolia Kurz
which was noted only on the
summit. Mordvinia on a Goodenia
at summit, but also on H.

unknown associations on descent. Nonishia found only on margin of a talus slope, possibly associated with a low spreading plant.